

# INTERNATIONAL SEARCH REPORT

Application No  
/GB2004/003265

**A. CLASSIFICATION OF SUBJECT MATTER**

IPC 7 H01S3/067

According to International Patent Classification (IPC) or to both national classification and IPC

**B. FIELDS SEARCHED**

Minimum documentation searched (classification system followed by classification symbols)  
IPC 7 H01S

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, INSPEC, WPI Data, PAJ

**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 6 411 323 B1 (WELCH DAVID F ET AL) 25 June 2002 (2002-06-25) column 7, lines 21-25 column 8, lines 19-23 -----	1-20, 25-31
X	US 6 445 494 B1 (PASCHOTTA RUEDIGER EBERHARD ET AL) 3 September 2002 (2002-09-03) column 31, lines 16-36; figure 17 column 30, lines 11-13 -----	1-21
Y	EP 1 113 540 A (SDL INC) 4 July 2001 (2001-07-04) column 12, lines 12-46 -----	22-24
X	US 6 031 850 A (CHEO PETER K) 29 February 2000 (2000-02-29) the whole document -----	1-20
A	-----	7,8
	-/-	

Further documents are listed in the continuation of box C.

Patent family members are listed in annex.

\* Special categories of cited documents :

- \*A\* document defining the general state of the art which is not considered to be of particular relevance
- \*E\* earlier document but published on or after the international filing date
- \*L\* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- \*O\* document referring to an oral disclosure, use, exhibition or other means
- \*P\* document published prior to the international filing date but later than the priority date claimed

- \*T\* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- \*X\* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- \*Y\* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- \*&\* document member of the same patent family

Date of the actual completion of the international search

17 November 2004

Date of mailing of the international search report

30.11.04

Name and mailing address of the ISA

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Application No  
'GB2004/003265

## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	US 2003/035628 A1 (KERSEY ALAN D ET AL) 20 February 2003 (2003-02-20) figure 15 -----	22-24
Y	WO 02/37625 A (CIDRA CORP) 10 May 2002 (2002-05-10) figure 1 -----	22-24
A	US 6 340 806 B1 (SVETKOFF DONALD J ET AL) 22 January 2002 (2002-01-22) abstract -----	1,2, 21-24

## INTERNATIONAL SEARCH REPORT

International application No.  
PCT/GB2004/003265

### Box II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1.  Claims Nos.: because they relate to subject matter not required to be searched by this Authority, namely:
  
2.  Claims Nos.: because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
  
3.  Claims Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

### Box III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

see additional sheet

1.  As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
  
2.  As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
  
3.  As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
  
4.  No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

#### Remark on Protest

- The additional search fees were accompanied by the applicant's protest.  
 No protest accompanied the payment of additional search fees.

Post Application Search

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. claims: 1-20, 25-31

Claims 1-20 and 25-31 relate to an apparatus for providing optical radiation wherein the apparatus is the features of the claims relate to structural details for providing efficient optical pumping of the light source.

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2. claims: 21-24

Claims 21-24 relate to an apparatus for providing optical radiation wherein the apparatus is configured to change the wavelength of a second amplifying waveguide for modulating the optical output of the apparatus.

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**INTERNATIONAL SEARCH REPORT**

Information on patent family members

Application No	
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